

b.) Amendments to Abstract

*Replace the paragraph beginning at page 15, paragraph [76], in the specification as originally filed, with the following rewritten paragraph:*

--Methods for fabricating refractive element(s) and aligning the elements in a compound optic, typically to a zone plate element ~~are disclosed~~. The techniques are used for fabricating micro refractive, such as Fresnel, optics and compound optics ~~comprising~~ including two or more optical elements for short wavelength radiation. One application is the fabrication of the Achromatic Fresnel Optic (AFO). Techniques for fabricating the refractive element generally include: 1) ultra-high precision mechanical machining, *e.g.*, diamond turning; 2) lithographic techniques including[[.]] gray-scale lithography and multi-step lithographic processes; 3) high-energy beam machining, such as electron-beam, focused ion beam, laser, and plasma-beam machining; and 4) photo-induced chemical etching techniques. Also addressed are methods of aligning the two optical elements during fabrication and methods of maintaining the alignment during subsequent operation.--